

CLAIM AMENDMENTS

Claims 1-20 are pending. Claims 1, 13 and 17 have been amended. Claim 8 has been canceled.

1 1. (Currently Amended) A method for controlling network digital broadcasting service,
2 comprising steps of:

3 directly requesting, at a client, a digital broadcasting server for a session connection, and
4 establishing a session by receiving a confirmation message for the session connection from the
5 digital broadcasting server; and

6 directly requesting, at the client, the digital broadcasting server for a channel change, and
7 changing a channel by receiving a confirmation message for confirming the channel change from the
8 digital broadcasting server,

9 wherein a message for requesting the channel change and the confirmation message for
10 confirming the channel change each include a DSM-CC (Digital Storage Media-Command and
11 Control) message header field, the message for requesting the channel change is a
12 ProgramSelectRequest message including: the DSM-CC (Digital Storage Media-Command and
13 Control) message header field, a Session ID (Identification) field, a STB (Set Top Box) status field,
14 a broadcast ProgramId field, and a Client ID field, and the ProgramSelectRequest message is
15 transmitted from the client to the digital broadcasting server.

1 2. (Original) The method according to claim 1, further comprising:

2 receiving, at the client, a message for checking a status of the client from the digital

3 broadcasting server, and directly delivering a confirmation message for checking the status of the
4 client to the digital broadcasting server.

1 3. (Original) The method according to claim 1, further comprising:
2 directly requesting, at the client, the digital broadcasting server for a session termination and
3 terminating a session by receiving a confirmation message for the session termination from the
4 digital broadcasting server.

1 4. (Original) The method according to claim 1, further comprising:
2 directly requesting, at the digital broadcasting server, the client for a session termination and
3 terminating a session by receiving a confirmation message for the session termination from the
4 client.

1 5. (Original) The method according to claim 1, further comprising the step of directly
2 receiving, at the client, a session termination request from the digital broadcasting server, and
3 terminating a session if the client cannot transmit a response to the session termination request from
4 the digital broadcasting server.

1 6. (Original) The method according to claim 1, wherein a protocol between the client and
2 the digital broadcasting server is a TCP/IP (Transmission Control Protocol/Internet Protocol).

1 7. (Original) The method according to claim 1, wherein a message for requesting the session

2 connection is a SessionSetupRequest message including: a DSM-CC (Digital Storage
3 Media-Command and Control) message header field, a Session ID (Identification) field, a Reserved
4 field, a Client ID field, and a Server ID field, and the SessionSetupRequest message is transmitted
5 from the client to the digital broadcasting server.

1 8. (Canceled)

1 9. (Original) The method according to claim 2, wherein the message for checking the status
2 of the client is a ServerStatusRequest message including: a DSM-CC (Digital Storage
3 Media-Command and Control) message header field, a Reason field, a statusType field, a
4 resourceNumber field for showing a number of a resource whose status is wanted to be known, a
5 Reserved field, and a client ID field, and the ServerStatusRequest message is transmitted from the
6 digital broadcasting server to the client.

1 10. (Original) The method according to claim 3, wherein a message for requesting a session
2 termination is a ClientReleaseRequest message including: a DSM-CC (Digital Storage
3 Media-Command and Control) message header field, a session ID field, a Reason field, and a
4 ClientID field, and the ClientReleaseRequest message is transmitted from the client to the digital
5 broadcasting server.

1 11. (Original) The method according to claim 4, wherein a message for requesting a session
2 termination is a ServerReleaseRequest message including: a DSM-CC (Digital Storage

Media-Command and Control) message header field, a session ID field, a Reason field, and a ClientID field, and the ServerReleaseRequest message is transmitted from the digital broadcasting server to the client.

12. (Original) The method according to claim 1, wherein the confirmation message for confirming the session connection is a SessionSetupConfirm message including: a DSM-CC (Digital Storage Media-Command and Control) message header field, a Session ID (Identification) field, a response field, and a Server ID field, and the SessionSetupConfirm message is transmitted from the digital broadcasting server to the client.

13. (Currently Amended) ~~The method according to claim 1, wherein~~ A method for controlling network digital broadcasting service, comprising steps of:

directly requesting, at a client, a digital broadcasting server for a session connection, and establishing a session by receiving a confirmation message for the session connection from the digital broadcasting server; and

directly requesting, at the client, the digital broadcasting server for a channel change, and changing a channel by receiving a confirmation message for confirming the channel change from the digital broadcasting server,

wherein a message for requesting the channel change and the confirmation message for confirming the channel change each include a DSM-CC (Digital Storage Media-Command and Control) message header field, the confirmation message for confirming the channel change is a ProgramSelectConfirm message including: the DSM-CC (Digital Storage Media-Command and

13 Control) message header field, a Session ID (Identification) field, a response field, a broadcast
14 ProgramId field, and a Client ID field, and the ProgramSelectConfirm message is transmitted from
15 the digital broadcasting server to the client.

1 14. (Original) The method according to claim 2, wherein the confirmation message for
2 confirming the status of the client is a ServerStatusConfirm message including: a DSM-CC (Digital
3 Storage Media-Command and Control) message header field, a Response field, a statusType field,
4 a resourceNumber field for showing a number of a resource whose status is wanted to be known, a
5 resourceStatus field, and a client ID field, and the ServerStatusConfirm message is transmitted from
6 the client to the digital broadcasting server for confirming the status of the client.

1 15. (Original) The method according to claim 3, wherein the confirmation message for
2 confirming a session termination is a ClientReleaseConfirm message including: a DSM-CC (Digital
3 Storage Media-Command and Control) message header field, a session ID field, a response field, and
4 a ClientID field, and the ClientReleaseConfirm message is transmitted from the digital broadcasting
5 server to the client.

1 16. (Original) The method according to claim 4, wherein the confirmation message for
2 confirming a session termination is a ServerReleaseConfirm message including: a DSM-CC (Digital
3 Storage Media-Command and Control) message header field, a session ID field, a response field, and
4 a ClientID field, and the ServerReleaseConfirm message is transmitted from the client to the digital
5 broadcasting server.

1 17. (Currently Amended) A system controlling a network digital broadcasting service
2 comprises:

3 a client and a digital broadcasting server, the client directly requesting the digital
4 broadcasting server for a session connection, and establishing a session by receiving a confirmation
5 message for the session connection from the digital broadcasting server; and

6 the client directly requesting a program change from the digital broadcasting server and
7 receiving a confirmation message from the digital broadcasting server, when the digital broadcasting
8 server confirms the program change,

9 wherein a message requesting the program change and the confirmation message confirming
10 the program change each include a DSM-CC (Digital Storage Media-Command and Control)
11 message header field, the message for requesting the program change is a ProgramSelectRequest
12 message including: the DSM-CC (Digital Storage Media-Command and Control) message header
13 field, a Session ID (Identification) field, a STB (Set Top Box) status field, a broadcast ProgramId
14 field, and a Client ID field, and the ProgramSelectRequest message is transmitted from the client to
15 the digital broadcasting server..

1 18. (Original) The system according to claim 17, further comprising:

2 the client periodically receiving a message from the digital broadcasting server for checking
3 a status of the client, and directly delivering a client status confirmation message, indicative of the
4 status of the client, to the digital broadcasting server.

1 19. (Original) The system according to claim 17, further comprising:

2 the client directly requesting the digital broadcasting server for a session termination and
3 terminating a session by receiving a confirmation message for the session termination from the
4 digital broadcasting server.

1 20. (Original) The system according to claim 17, further comprising:

2 the digital broadcasting server directly requesting the client for a session termination and
3 terminating a session by receiving a confirmation message for the session termination from the
4 client.